

## ABSTRACT OF DISCLOSURE

A robot system includes a mobile robot with a driving part to move. The robot system includes a light commander to emit light and give a command corresponding to a reflecting position at which the light is reflected. The robot system also includes a position detector to receive information on the reflecting position as an image, and to detect the reflecting position, and a controller to determine a reflecting trace based on the reflecting position detected by the position detector, and to output the reflecting trace to the driving part to control the driving part. Thus, the robot system and a control method thereof, has reduced costs, and is easy and safely operated, and immediate operation teaching is possible without a compensating process.